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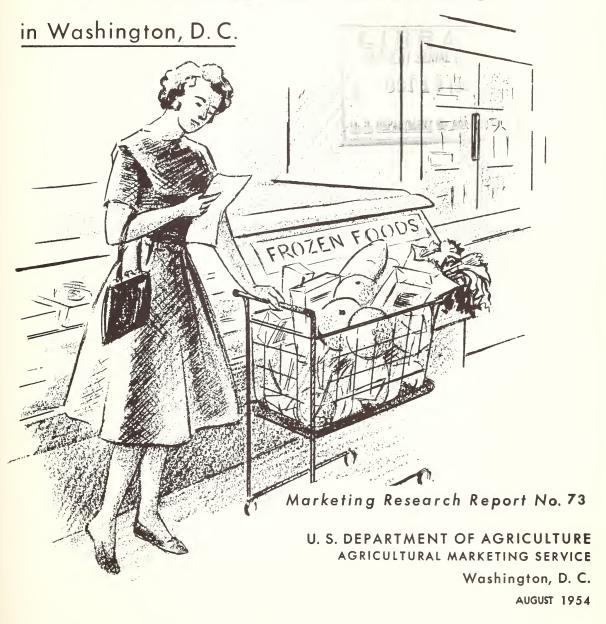
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Availability and Display of

FROZEN FOODS PRETAIL STORES



CONTENTS

	Page
Summary	iii
Introduction	1
Description of sample stores	3
Findings	4
Availability of frozen foods	4
Relationship of display space to sales	6
Condition of frozen food displays	14
Facilities and buying practices	15
Price of fresh, canned and frozen foods	16
Appendix	18

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Summary

In this study of the availability and display of frozen foods in retail stores, there were 153 different items of frozen food (including pet food) on sale in the 27 sample stores surveyed in Washington, D. C. Of these foods, only 21 were carried by all stores in the sample. These items were:

baby lima beans fordhook lima beans green beans broccoli cauliflower cut corn kale

mixed vegetables okra green peas spinach succotash strawberries grape juice lemonade
limeade
orange juice
beef sandwich steaks
french-fried potatoes
prepared shrimp
chopped horsemeat

For the 6-week period of the study, sales ranged from \$0.49 to \$1.46 per square inch of display space among 8 categories of frozen foods. Concentrates brought the highest return of any category followed by meats, prepared foods, vegetables, poultry, fruit, seafoods, and pet food, in that order.

There appeared to be a need for better display cases and additional storage facilities, particularly in the smaller stores. However, in many cases, better use could be made of present equipment before considering new or increased facilities. A new display case is not the solution to a disorderly arrangement. There were enough stores, scattered throughout the sample, that gave continuous attention to their frozen food displays to indicate that frozen food sales in many stores could be increased without additional equipment. Of four factors tested, condition of display (order-liness, price marking, frosted packages, and damaged packages) had the most important effect on frozen food sales. The analysis also included the number of items displayed, the percent of unoccupied cabinet space, and the percent of total display space allocated to the 10 best-selling items.

The larger stores had greater dollar sales of frozen food per unit of display space and also had relatively more of their total floor space devoted to frozen foods. Sales of all frozen foods for the 6-week period averaged \$0.27 per square inch of display space in the small stores

(annual sales of \$75,000 to \$199,999), \$0.39 in the medium stores (annual sales of \$200,000 to \$499,999), and \$1.00 per square inch in the large stores (annual sales of over \$500,000). Stores in the small group averaged 14.0 square feet of display space, compared to 22.6 in the medium stores and 57.5 in the large stores.

The 153 frozen foods on sale in the sample stores included 24 vegetables, 11 fruits, 12 concentrates, 21 seafoods, 8 items of poultry, 14 meats, 62 prepared foods (such as french-fried potatoes, breaded shrimp, etc.) and 1 pet food. The number of commodities on sale in a single store ranged from 36 to 103 averaging 57 in the small stores, 70 in the medium stores, and 79 in the large stores.

Frozen vegetables occupied 36.3 percent of the cabinet space, concentrates 18.0 percent, prepared foods 17.2 percent, seafood, 10.2 percent, fruits 6.0 percent, poultry 3.6 percent, meats 3.4 percent, and pet foods 1.5 percent. Unoccupied space averaged 3.8 percent for all stores (based on display area covered regardless of the depth of display).

Concentrates accounted for 33.3 percent of all frozen food sales, frozen vegetables 31.9 percent, prepared foods 15.4 percent, seafood 7.2 percent, fruits 4.3 percent, meats 4.0 percent, poultry 3.0 percent, and pet foods 0.9 percent.

The growing importance of prepared foods was demonstrated by the fact that this group ranked first in number of items available and third in both display space and sales.

The 10 best-selling commodities in the sample stores occupied 38.2 percent of the display space and accounted for 58.4 percent of all frozen food sales. These commodities were concentrated orange juice, lima beans, concentrated lemonade, green peas, broccoli, green beans, beef sandwich steaks, concentrated grape juice, spinach, and f rench-fried potatoes.

The large stores devoted over twice the proportion of space to sea foods (12.2 percent) as did the other two groups of stores. Seafood sales accounted for 7.7 percent of total sales in the large stores, 5.3 percent in the small stores, and 3.7 percent in the medium stores.

Poultry sales were relatively more important in the small stores, accounting for 8.5 percent of sales and 6.2 percent of the total display space. This was about three times the percentage of sales and nearly twice the percentage of space devoted to poultry in the medium and large stores.

Meats also were relatively more important in the small stores, accounting for 9.0 percent of their sales while occupying only 4.8 percent of their display space. Meat sales and space were both around 3.0 percent in the medium and large stores.

Retail prices were compared for equivalent amounts of six fresh, frozen, and canned vegetables. These were peas, lima beans, green beans, cut corn, spinach, and broccoli. The price of frozen peas was considerably less than that of fresh peas and was comparable to the price of the canned product for an equivalent amount. The price of frozen spinach was lower than that of either the canned or fresh spinach. Fresh lima beans, green beans, and broccoli sold at a lower price than either the canned or the frozen product. Whole kernel corn was the only canned item selling at a noticeably lower price than its fresh or frozen equivalent.

Many stores did not stock several of the fresh vegetables although they were in season and readily available. Less than one-third of the stores stocked fresh peas, lima beans, spinach or broccoli. The 6 frozen and canned items (except broccoli, which is not usually canned) were available in nearly all the stores.



AVAILABILITY AND DISPLAY OF FROZEN FOODS IN RETAIL STORES IN WASHINGTON, D. C.

By Dehard B. Johnson, Agricultural Economist

Introduction

The rapid growth of the frozen food industry in recent years and the likelihood of continued expansion have introduced many marketing problems. Facilities for handling, storing, transporting, and displaying frozen foods have not always been adequate to provide for the increased volume. Frozen food processors and wholesalers sometimes regard the limited display space provided in retail stores as a bottleneck to the expansion of frozen food sales. Retailers counter these claims by stating that space is always at a premium in a retail grocery store and that frozen foods account for only a small part of total sales.

In view of the interest shown in the retail handling and merchandising of frozen foods, this study was undertaken (1) to give a basis for judging the availability of the various frozen food products sold in retail stores, (2) to determine the relationship between display space and dollar volume of sales for the various items offered, and (3) to compare retail prices of selected fresh, frozen, and canned products.

The study reported here is a part of a broader program to appraise the potential market for frozen foods. 1/ It is based upon a probability sample of chain and independent stores in Washington, D. C., which handled frozen foods and had annual sales of over \$75,000. Complete information was obtained on the dollar sales for each frozen item handled during a six-week period from August 3 through September 12, 1953. The display space occupied by each item was measured at equal

^{1/} A recent report entitled, "Purchases of Frozen and Canned Foods by Urban Families as Related to Home Refrigeration Facilities," by H. W. Bitting, Marketing Research Report No. 60, is the first report of the series on frozen foods. Surveys are currently under way on the use of frozen foods by ice cream manufacturers, preserve manufacturers, pie bakers, and restaurants and cafeterias.

Table 1.- Total and frozen food floor space and value of frozen food sales in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

	:		F.	loor space	•	
Group a		Total	•	Frozen food	:Frozen as a: :percentage : : of total :	sales
Cmall	:	Square feet		Square feet	Percent	Dollars
Small	1 2 3 4 5 6 7 8 :	590 625 650 840 1,320 2,400 4,225 4,400		33 34 50 67 33 48 41 99	5.6 5.4 7.7 8.0 2.5 2.0 1.0 2.3	278.04 320.15 834.75 406.79 1,049.72 312.65 453.28 719.58
Averag	gė :	1,881		50	2.7	546.78
Medium	9: 10: 11: 12: 13: 14: 15: 16:	1,496 1,520 1,700 1,805 1,932 2,700 2,700		51 39 83 99 66 74 87 101	3.4 2.6 4.9 5.5 3.4 2.7 3.2 3.7	1,004.09 677.74 889.09 1,472.99 1,064.22 2,777.65 889.95 1,372.50
Avera	g e	2,076		75	3.6	1,268.54
Large	17 18: 19: 20: 21: 22: 23: 24: 25: 26: 27: 3e:	3,300 3,976 3,995 4,464 4,550 5,000 5,400 5,700 8,505 8,740 8,884		241 175 143 126 169 236 258 228 194 203 304	7.3 4.4 3.6 2.8 3.7 4.7 4.8 4.0 2.3 2.3 3.4	7,224.36 8,551.11 8,177.53 3,439.34 6,922.61 8,205.14 13,621.55 6,555.65 11,741.43 5,970.43 10,636.06 8,276.84
Average		3,488		121	3.5	3,909.94

intervals four times during the six-week period. Records were kept on price changes and numbers of packages sold at each price. Frequent observations were made of the condition of frozen food displays and promotional practices. Expected seasonal variations in sales of some items were not brought out in the limited period of these observations. Such factors as store location, type of clientele, and the elusive attributes of management, unfortunately, could not be measured.

Description of sample stores

This report is based on frozen food sales in 27 chain and independent stores located throughout Washington, D. C. They were divided into three size groups based on 1952 total store sales. The groups and the number of stores in each were:

Size group	Number of stores	Gross sales in 1952
small	8	\$75,000 to \$199,999
medium	8	\$200,000 to \$499,999
large	11	\$500,000 or over

A random sample of stores was drawn from a list of all stores in the city that handled frozen food and did an annual business of \$75,000 or more. Sample stores were then divided into three size groups. The large group consisted entirely of chain stores. One store in the medium group was a chain. All others in the sample were independently managed.

The total selling space varied from 590 to 8,884 square feet in the stores studied. Stores are listed in ascending order of area of floor space within each size group (table 1). The stores in the small group had a greater variation in area of floor space than those in either the medium or large group—two of them had more floor space than some of the stores in the large group. The floor space devoted to frozen foods varied from 1.0 to 8.0 percent, averaging 2.7 percent in the small stores and 3.6 percent in the medium and large stores. Since total sales for each store were obtained only by the categories shown above, it was not possible to determine frozen food sales as a percentage of total sales.

Findings



Availability of frozen foods

There were 153 different commodities on sale in the sample stores during the 6-week period (appendix table 8). These were divided as follows: 24 vegetables, 12 concentrates, 62 prepared foods, 21 seafoods, 11 fruits, 8 items of poultry, 14 meats, and 1 pet food. The number on sale in a single store varied

from 36 to 103, averaging 70 commodities for all stores. The small stores displayed an average of 57 commodities, the medium stores 70, and the large stores 79. These differences were largely the result of differences in the seafood and prepared food categories.

There was an average of 20 vegetables, 8 concentrates, 20 prepared foods, 9 seafoods, 5 fruits, 4 items of poultry, 3 meats. and 1 pet food available for sale (table 2). An average of 6 seafood was available in the small stores, 7 in the medium stores, and 13 in the large stores. Prepared foods averaged 14 in the small stores, 22 in the medium stores, and 23 in the large stores. There was little difference among store groups in the number of commodities available in the other categories.

Table 2.- Average number of frozen foods on sale by retail store groups and commodity groups, Washington, D. C., Aug. 3-Sept. 12, 1953

Store group average		Concen- trates	:Pre- :pared :foods	Sea- food	Fruit	Poultry	Meat	Pet food	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
Small Medium Large	: 20	6 9 8	14 22 23	6 7 13	4 5 6	5 3 5	3 3 3	1 1 1	57 70 7 9
All stores	20	8	20	9	5	4	3	1	70

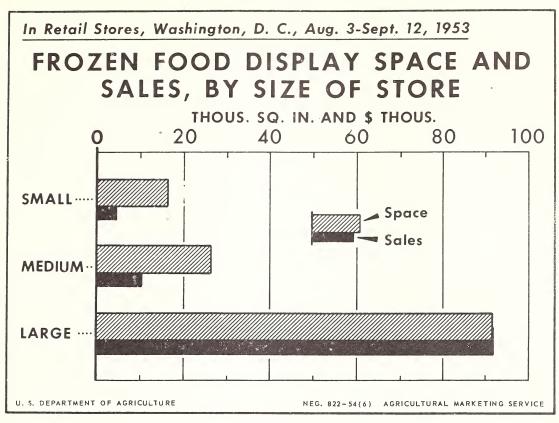
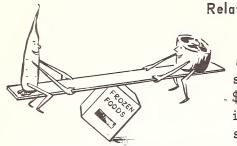


Figure 1.

The number of brands of each commodity on sale in a single store varied from one to six. Some of the stores having high sales volume in each of the size groups carried only a single line of vegetables while other stores carried two or three brands of the important vegetables. Most stores had three or four brands of frozen concentrated orange juice. Few stores carried more than one brand in the other categories with the exception of seafood. A few of the stores in the large size group carried more than one brand of several items of seafood. The number of brands on sale and the dollar sales per square inch of display space are given for six major commodities in appendix table 10.



Relationship of display space to sales

During the 6 weeks, frozen food sales averaged \$0.79 per square inch of display space for all stores. Gross returns averaged \$1.00 per square inch in the large stores, \$0.39 in the medium stores, and \$0.27 in the small stores. The large stores had over twice as

much display space devoted to frozen foods as did the medium stores and four times as much as the small stores (fig. 1).

All frozen foods in the sample stores were divided into 8 categories to facilitate analysis. These are vegetables, concentrates, prepared foods, seafoods, fruits, poultry, meats, and pet foods. 2/ An allocation was also made for empty space when it was observed.

2/ In several stores there were items such as turkeys and bulk-pack fish that were sold by the pound. Some of these items were sold from the frozen food case and the meat counter. These bulk-pack items were not included among the other frozen foods due to the varying prices and display methods. Where bulk-pack items were sold, the space they occupied has been deducted from the total frozen food display space reported for each store.

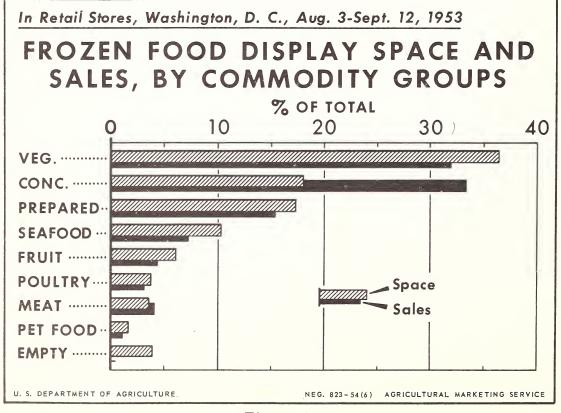


Figure 2.

Vegetables occupied the greatest portion of display space --36.3 percent -- and accounted for 31.9 percent of total sales (fig. 2). Concentrates occupying only 18.0 percent of the display space accounted for 33.3 percent of sales. This indicates the importance of these high value, rapid turnover items. Prepared foods were third in both display space and sales at 17.2 and 15.4 percent of their respective totals. Seafood occupied 10.2 percent of the space and accounted for 7.2 percent of sales. Fruit had 6.0 percent of the space and 4.3 percent of sales, poultry 3.6 percent of space and 3.0 percent of sales, meat 3.4 percent of space and 4.0 percent of sales, and pet food 1.5 percent of space and 0.9 percent of sales. There was some empty display space in nearly every store, averaging 3.8 percent for all stores.

Table 3. - Percentage distribution of frozen food display space and sales value in retail stores, by commodity groups, Washington, D. C., Aug. 3-Sept. 12, 1953

Store group	1 Veget	tables	Conce	ntrates	Prepar	ed food	s' Seaf	oods
average	'Space'	Sales	Space	'Sales	Space	'Sales	'Space'	Sales
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
	1							
Small	32.4	27.4	19.1	30.3	17.3	13.4	5.9	5.3
Medium	39.0	35.2	18.4	36.3	20.5	14.1	6.0	3.7
Large	36.2	31.8	17.7	33.1	16.2	15.7	12.2	7.7
	1							
A11	\$							
stores	36.3	31.9	18.0	33.3	17.2	15.4	10.2	7.2
	1							
Store group	Fru	it	Pou.	ltry 1	Meat	¹ Pe	t food 1	Empty
Store group average	-			/	Meat pace 'S al			
	-	Sales	'Space'	Sales 'S		es 'Spac		
	Space	Sales	'Space'	Sales 'S	pace'Sal	es 'Spac	e'Sales'	Space
average	Space Pct.	Sales	'Space'	Sales 'S	pace'Sal Pct. Po	es 'Spac	e'Sales'	Space
	Space Pct.	Sales Pct.	Space Pct.	Sales 1 S Pct. 8.5	pace'Sal Pct. Pc	es 'Spacet. Pct	e'Sales' . Pct.	Space Pct.
average Small	Space Pct. 5.7 5.4	Pct. 3.9	Pct.	Sales 1 S Pct. 8.5	Pace'Sal Pct. Pc 4.8 9. 3.2 3.	es 'Spacet. Pct	e'Sales' 2.2 1.1	Space Pct. 6.4
average Small Medium	Space Pct. 5.7 5.4	Pct. 3.9 3.4	Pct. 6.2 3.2	Sales 'S Pct. 8.5 3.0	Pace'Sal Pct. Pc 4.8 9. 3.2 3.	es 'Spacet. Pct 0 2.2 2 1.5	e'Sales' 2.2 1.1	Space Pct. 6.4 2.8
average Small Medium Large	Space Pct. 5.7 5.4	Pct. 3.9 3.4	Pct. 6.2 3.2	Sales 'S Pct. 8.5 3.0	Pace'Sal Pct. Pc 4.8 9. 3.2 3.	es 'Spacet. Pct 0 2.2 2 1.5	e'Sales' 2.2 1.1	Space Pct. 6.4 2.8
average Small Medium	Space Pct. 5.7 5.4 6.3	Pct. 3.9 3.4	*Space* Pct. 6.2 3.2 3.3	Sales 'S Pct. 8.5 3.0 2.7	Pct. Pc 4.8 9. 3.2 3. 3.2 3.	es 'Spacet. Pct 0 2.2 2 1.5	e'Sales' . Pct. 2.2 1.1 8	Space Pct. 6.4 2.8

Vegetables occupied the largest amount of display space in all three size groups of stores (table 3). They accounted for around one-third of the total display space. In each case, vegetable sales ranked second in total sales value among the 8 categories of frozen foods.

Concentrates occupied about one-fifth of the total display space in each store group. Their sales ranked first in all store groups, accounting for roughly one-third of the total value of frozen food sales.

Prepared foods ranked third in the amount of display space occupied and in total sales value except in the medium-sized stores where they were second in amount of space occupied.

Seafood accounted for more than twice the proportion of total space in the large stores as in either the medium or small stores. Seafood sales were the smallest of any commodity group in relation to the average proportion of space devoted to them in all stores, although the ratio of percent of sales to percent of space was considerably better in the small-store group than in the others.

There was only slight variation among the three store groups in the proportions of space and sales accounted for by fruit.

Poultry was relatively more important in the small-store group, accounting for 6.2 percent of the space and 8.5 percent of the sales. This was about three times the percentage of sales and nearly twice the percentage of space accounted for by poultry in the medium and large stores.

Meat also was relatively more important in the small stores, occupying 4.8 percent of space and accounting for 9.0 percent of sales. It accounted for only 3.2 percent of sales in the medium stores and 3.8 percent in the large stores while occupying an average of 3.2 percent of the space in both store groups.

In the small stores, pet food accounted for 2.2 percent of sales from 2.2 percent of the space. It accounted for 1.1 percent of the sales from 1.5 percent of space in the medium stores, and 0.8 percent of sales from 1.3 percent of the space in the large stores.

Empty space varied considerably among individual stores, averaging 6.4 percent for the small store group, 2.8 percent for the medium stores, and 3.6 percent for the large stores. The occurrence of empty frozen food display space could not consistently be associated with lack of

storage, poor delivery schedules, jumbled displays, or any other one factor. Each store presented a different situation with respect to unused space.

Returns from frozen food display space may be measured in terms of sales per unit of space. Square inches are used as the unit of measure in this analysis as this proved most convenient for making comparisons among individual commodities (fig. 3).

Concentrates ranked first in sales per unit of space, with an all-store average of \$1.46 per square inch (table 4). In the small-store group, however, meat brought a higher return per unit of space. Returns for concentrates averaged \$0.43 per square inch in the small stores, \$0.77 in the medium, and \$1.87 in the large stores.

Meat sales brought the second highest returns per square inch of display space, averaging \$0.93 for all stores, \$0.51 in the small stores, \$0.40 in the medium stores, and \$1.19 in the large stores.

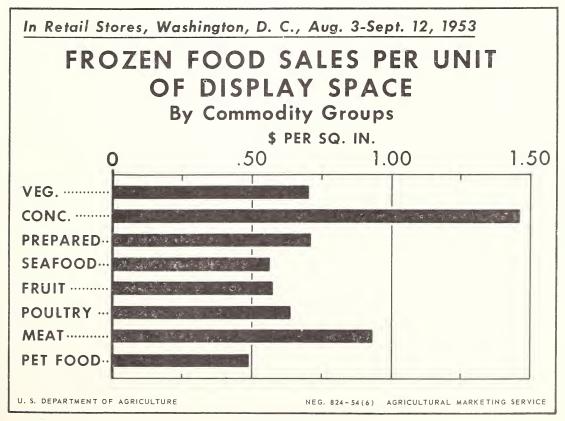


Figure 3.

Prepared foods, with all-store average sales of \$0.71 per square inch, ranked third, having slightly higher sales per unit of space than vegetables. Sales averaged \$0.21 per square inch in the small stores, \$0.27 in the medium stores, and \$0.97 in the large stores.

Vegetables ranked fourth in sales per unit of display space, with an all-store average return of \$0.70 per square inch. Sales averaged \$0.23 per square inch in the small stores, \$0.35 in the medium stores, and \$0.88 in the large stores.

Poultry, with an all-store average return of \$0.64 per square inch, ranked fifth among the eight commodity groups. In this category, as in meats, the small stores received a higher return (\$0.37 per square inch) than the medium stores (\$0.36 per square inch). Returns averaged \$0.82 per square inch in the large stores.

Frozen fruit, with an all-store average of \$0.57, ranked sixth in sales per square inch of display space. Returns in the small and medium stores averaged \$0.19 and \$0.25 per square inch, respectively. In the large store group, fruit returned \$0.71 per square inch.

Seafood returns were next to the lowest of any category, with an allstore average of \$0.56 per square inch. Average returns were \$0.24 per square inch in the small and medium stores, and \$0.63 in the large stores.

Pet foods were lowest of any category in sales per unit of display space, averaging \$0.49 per square inch for all stores. Small-store sales were \$0.27 per square inch, medium-store sales \$0.28, and large-store sales \$0.63.

Table 4.- Average value of frozen food sales per square inch of display space by retail store groups and commodity groups, Washington, D. C., Aug. 3-Sept. 12, 1953

	Vege- tables	Concen- trates	: Pre- :pared :foods	Sea- fcod	Fruit	Poultry	: :Meat	Pet food	Total
	Dol.	Dol.	Dol.		Dol.	Dol.	Dol.		Dol.
Small	• 35	0.43 .77 1.87	0.21 .27 .97		0.19 .25 .71	0.37 .36 .82	0.51 .40 1.19	0.27 .28 .63	0.27 .39 1.00
All stores	.70	1.46	.71	•56	•57	.64	•93	.49	•79

The 10 best sellers occupied 38.2 percent of the total frozen food display space and accounted for 58.4 percent of the total dollar sales (table 5). 3/ These items were orange juice, lima beans, lemonade, peas, broccoli, green beans, beef sandwich steaks, grape juice, spinach, and french-fried potatoes.

These 10 commodities accounted for 58.5 percent of the sales and 39.1 percent of the space in the large stores, 60.3 percent of the sales and 38.6 percent of the space in the medium stores, and 52.4 percent of the sales and 32.6 percent of the space in the small stores.

Display space occupied by the 10 best sellers ranged from 1.6 percent for grape juice to 7.3 percent for orange juice. Dollar sales of each commodity ranged from 2.3 percent of all sales for spinach to 21.2 percent for orange juice (table 5). Nine of the 10 commodities accounted for a larger proportion of sales than of display space. Spinach was the only exception, accounting for only 2.3 percent of sales while occupying an average of 3.4 percent of the space.

Relatively more display space was provided in the large and medium stores for each of these 10 commodities except beef sandwich steaks and grape juice.

The 10 leading commodities returned an all-store average of \$1.21 per square inch of display space. Sales per square inch for the 10 commodities are shown in table 6. Small-store sales averaged \$0.44 per square inch, medium-store sales \$0.61, and the large-store sales \$1.50. In the individual stores, average returns for the 10 items varied from a low of \$0.28 per square inch to a high of \$2.08 per square inch.

Frozen concentrated orange juice, which accounted for 63 percent of all concentrate sales, returned \$0.78 per square inch in the small stores, \$1.27 in the medium stores, and \$2.83 in the large stores, for

^{3/} These 10 commodities accounted for highest dollar sales in most stores. For example, orange juice sales were highest in 25 of the 27 stores, lima bean sales were second highest in more stores than any other commodity, and lemonade was third. The others were peas, broccoli, green beans, beef sandwich steaks, grape juice, spinach, and frenchfried potatoes, in that order. The 10 best sellers were not determined on the basis of total sales value in all stores, as this method would obscure the importance of any best sellers in the small stores that were not equally important in the larger stores (see appendix table 8 for rank in aggregate sales).

Table 5. - Percentage distribution of display space and sales value of 10 leading frozen foods, Washington, D. C., Aug. 3-Sept. 12, 1953

Store	Orai	nge juice	Lima	a beans	Lemo	onade	1 P	eas	
group		ce 'Sales	' Space	'Sales	¹ Space	Sales	1 Space	e'Sale	S
	Pct	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pc	t.
	1	-							
Small	6.4	18.2	3.8	5.5	3.3	5.4	2.8	3.9	9
Medium	7.4	24.0	5.5	7.0	3.7	5.8	3.6	5.3	3
Large	7.5	21.1	5.1	5.7	3.8	6.2	4.2	4.3	3
A11	1								
stores	7.3	21.2	5.0	5.8	3.7	6.1	3.9	4.4	1
Store	Bro	occoli ¹	Green	beans	Beef sar	ndwich s	teaks	Grape	e juice
		'Sales '	Space 1			e 'Sale			Sales
		Pct.	Pct.	Pct.	Pct.	Pct		Pct.	
	Į.	DOS PRINCIPALIFICATION	*****				_		
Small	1.9	2.9	3.7	2.8	3.0	4.4		2.5	4.3
Medium			5.5	3.4	2.0	2.3		1.6	2.2
Large	4.0	3.8	5.0	7.2	2.1	3.2		1.5	2.3
All	1								***************************************
	3.6	3.8	4.9	6.7	2.2	3.2		1.6	2.4
Store	₽ Sp	inach	1 Fren	ch-frie	ed potatoe	s ¹	Tota	1	
group	Spa	ce ^t Sales	1 Spa	ce	Sales	¹ Sp	ace ¹ Sa	ales	
	Pct.	Pct.	Po	t.	Pct.	Po	ct. I	Pct.	
Small	3.3	2.4	2.0)	2.6	32	2.6	52.4	
Medium		3.2	2.:		2.7			60.3	
Large	_	2.2	2.0		2.5			58.5	
All	1								
stores	3.4	2.3	2.	5	2.6	38	3.2	58.4	

Table 6.- Average sales value per square inch of display space for 10 leading frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

Store	:Orange	:Lima :	Lemon- ade	Peas	Broc-: coli:	Green: beans:	Beef sand- wich steaks	:Grape:	Spin-: ach :	French- fried potatoes
	: Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Small Medium Large	.: 1.27	-49	0.42 .61 1.64	•57	.56	0.20 .24 1.46	.46	0.47 .55 1.51	0.20 .32 .67	0.35 .47 .97
All stores	.: 2.30	•92	1.31	•89	.84	1.08	1.14	1.14	•53	•82

an all-store average of \$2.30 per square inch (table 6). This represents an all-store average of \$9.20 per square foot of frozen concentrated orange juice display each shopping day. It reached a daily average of \$18.80 per square foot in one store. Orange juice was first in sales in each store group; in fact, it was first in all but two stores.

Lemonade ranked second in sales per square inch of display space with an all-store average return of \$1.31. Unusually hot weather occurred during about two of the six weeks in which data were being collected. The prominent position of lemonade sales is, no doubt, partly a result of the weather conditions.

Beef sandwich steaks (which accounted for 79 percent of meat sales) and grape juice ranked third in sales per unit of space, each averaging \$1.14 per square inch for all stores.

French style and cut green beans brought an all-store average return of \$1.08 per square inch to place fifth in sales per unit of display space. Lima beans (including butter beans as well as fordhook and baby limas) returned \$0.92 per square inch, ranking sixth in sales per unit of display space for all stores.

Peas ranked seventh, with sales averaging \$0.89 per square inch of space, and broccoli ranked eighth, with average sales of \$0.84 per square inch.

French-fried potatoes were the only prepared food among the top 10, ranking ninth with average sales of \$0.82 per square inch.

Spinach, with average sales of only \$0.53 per square inch, ranked tenth, well below any of the other best selling commodities.

Condition of frozen food displays

Four factors were considered in classifying the condition of the displays in the sample stores. These were orderliness, price marking, frosted packages, and thawed or otherwise damaged packages. In order to obtain a measure of degree from a "yes or no" type of appraisal of these factors, separate observations were recorded for each of the eight commodity groups. Each store that had an orderly display, with adequate price

marking, and no frosted packages or damaged packages in each of the 8 commodity groups was scored 32 as perfect.

Ten of the 27 stores scored 32, three scored 31, one 30, one 28, one 23, one 21, two 19, one 17, one 16, one 10, three 8, and two 5. None of the large stores scored less than 30, two of the medium stores scored 32, and one of the small stores scored 31. Limitations such as type of facilities, as well as management practices, are reflected in these scores. Low scores in several of the smaller stores resulted in part from inadequate facilities. Such situations place a larger burden on the store manager in effectively displaying his frozen foods.

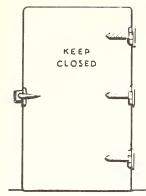
In attempting to evaluate the effect of condition of display upon frozen food sales, a multiple correlation was run, relating sales to

- (1) condition of frozen food display, (2) number of items displayed,
- (3) percent of unoccupied cabinet space, and (4) percent of total space allocated to the 10 best selling items. Slightly over half of the variation in sales could be explained by these factors. 4/ Practically all of the explained variation in frozen food sales found in the 4 factors tested was associated with condition of display.
 - 4/ The regression equation was:

$$y = -1.86 - .00117x_1 - .0043x_2 + .0101x_3 + .0278x_4$$

.002 .016 .008 .006

where y represents dollar sales from frozen foods; x_1 represents number of items on display; x_2 represents percent of unoccupied display space; x_3 represents percent of total display space allocated to the 10 best selling items; x_4 represents condition of frozen food display, and where the numbers below the coefficients of the x's are the standard errors of the respective coefficients. The multiple correlation coefficient was .753.



Facilities and buying practices

Frozen food display space in the sample stores consisted of 77 percent open, glass-front cases and 23 percent chest-type cases. All but one of the stores in the small group used chest-type display cases exclusively. Only two stores in the medium group and none in the large group were equipped entirely with chest-type cases. In the small-store group, 78 percent of the total display space was provided by chest-type cases. This figure dropped to an average of 35 percent

in the medium stores and 10 percent in the large stores. The newer open, glass-front cases were used exclusively by 3 medium stores and 5 large stores. In most stores where both types were used, the chests were devoted to the display of frozen concentrates.

Differences in total frozen food holding capacity among store groups were much greater than differences in display space. Total frozen food holding capacity for each store includes the capacity of both display cases and other storage facilities when available. The small stores averaged 25 cubic feet of holding capacity, compared to 43 cubic feet for the medium stores and 301 cubic feet for the large stores (appendix table 17).

There were only two stores in the small group that had storage chests and three in the medium group, while every store in the large group had either chest or walk-in storage. Frozen food storage facilities were inadequate in some stores. Out-of-stock situations were observed a number of times during the six weeks. In some instances frozen foods were stored in meat lockers or other storage not intended to maintain temperatures low enough for frozen foods. The addition of storage would probably prove profitable in these cases. In some stores, however, the relatively poor displays resulted from lack of attention. In these stores, lack of storage facilities could not be considered a limitation.

The size of frozen food purchases of vegetables, concentrates, and other items was estimated for each of the 27 stores. Concentrates were the only group of items usually purchased in case lots by all stores. Vegetables and other items were usually purchased by small stores in quantities of less than a dozen packages at a time. Three of the eight medium stores made it a practice to purchase less than a dozen packages of an item at a time. Most of the stores in the large group made purchases in case lots.

Size of purchases, number of deliveries a week, and available storage facilities are related. Several of the medium and large stores with limited storage received daily deliveries and purchased in relatively small quantities. The small stores had fewer deliveries per week than many of the medium and large stores.

Prices of fresh, canned and frozen foods

A check of the prices of six fresh, frozen, and canned items was made during the week of August 24-29. 5/ The information presented in table 7 represents an approximation of the prices of equivalent amounts of the same quality for peas, lima beans, cut green beans, cut corn, spinach, and broccoli. 6/

- 5/ While it was not the purpose of this study to determine the effect which the relative prices of fresh, frozen, and canned vegetables had upon their relative sales, it seemed important to give recognition to the price relationship that prevailed during the period of this study. Unfortunately, the relative sales volume for the corresponding fresh and canned items could not be collected. Undoubtedly, customer purchases are affected by the commodity offered, the form in which it is offered (fresh, frozen, or canned), and the relative prices of these offerings.
- 6/ The following yields were used in reducing fresh weights to frozen equivalents, Green peas, 40 percent; lima beans, 40 percent; green beans, 90 percent; corn, 38 percent; spinach, 75 percent; and broccoli 61 percent. Yields for reducing canned weights to frozen equivalents were: Green peas 63.6 percent; lima beans, 63.7 percent; green beans, 64.2 percent; and spinach, 57 percent. Vacuum-packed whole kernel corn was considered equivalent in edible weight to frozen corn.

Table 7.- Average prices for equivalent quantities of fresh, canned, and frozen vegetables in retail stores, by commodity groups, Washington, D. C., Aug. 24-29, 1953

Item :	Peas 10 cz.	Lima beans 10 oz.	: Cut green: : beans : : 10 oz. :	Cut corn 10 oz.	Spinach	Broccoli 10 oz.
4	Cents	Cents	Cents	Cents	Cents	Cents
Frozen	38.9	29•7 25•7 26•5	24.7 9.8 22.4	23.3 19.6 17.8	22.0 36.7 25.5	29.0 18.1

The price of frozen peas was considerably less than that of fresh peas and was comparable to the price of the canned product for an equivalent amount. The price of frozen spinach was lower than that of either canned or fresh spinach. Fresh lima beans, green beans, and broccoli sold at lower prices than either the canned or the frozen product. Whole kernel corn was the only canned item selling at a noticeably lower price than its fresh or frozen equivalent.

The six frozen and canned items (except broccoli, which is not usually canned) were available in nearly all the stores. However, many stores did not stock several of the fresh vegetables although they were in season and readily available. Less than one-third of the stores visited during the week stocked fresh peas, lima beans, spinach or broccoli.

Appendix

Appendix table 8.- Şales value, number of stores handling and number of brands of frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

Commodity	: :Total sales:	total sales	: per		Brands available
Asparagus Beans, baby lima Beans, butter Beans, fordhook lima Beans, green Beans, wax Eroccoli Brussel sprouts Cauliflower Collards Corn, cut Corn, on cob Kale Mixed vegetables Mustard greens Okra	Dollars 1,420.74 1,517.07 285.10 4,351.17 7,055.66 180.77 3,994.54 1,259.15 1,004.90 414.07 746.54 153.80 582.07 1,051.91 8.25 653.55	Number 16 14 59 6 2 65 7 17 22 42 24 73 34 20 125 30	Dollars 0.63 .67 .60 1.09 1.08 .28 .84 .78 .49 .37 .42 .33 .38 .54 .27	Number 26 27 11 27 27 17 27 26 27 25 27 14 27 27 27 27	Number 9 7 2 9 13 4 12 8 8 7 9 7 10 11 1
Peas, green	4,620.97 335.62 365.59 103.66 2,425.05 55.88 744.18 373.47	5 50 46 87 13 100 25 45	.89 .34 .35 .17 .53 .22 .50 .28	27 21 21 12 27 5 27 24	13 6 2 14 2 6 9
Blueberries Boysenberries Fruit cup Grapefruit sections Melon balls Peaches Pineapple chunks Raspberries Rhubarb Strawberries	: 71.42 : : 20.24 : 2.80 : 456.91 : 303.15 : 213.26 : 567.98 : 213.38 : 2,707.45	91 116 139 39 56 62 35 61	.25 .13 .13 .72 .27 .23 .84 .26	12 1 8 1 13 26 22 24 22 27	2 1 1 4 6 2 6 3 14
Coffee Grape juice Grapefruit juice Lemon juice Lemonade Lime juice Limeade Orange juice Orange and grapefruit blend Pineapple juice Tangerine juice	122.94 2,515.33 543.58 57.72 6,490.58 19.00 982.61 22,412.88 448.09 641.36 690.51 198.64	79 12 36 98 3 117 23 1 40 31 28 64	28 1.14 .40 .26 1.31 .95 .68 2.30 .60 .63 .49 .41	15 27 22 7 27 27 27 14 19 25	1 5 4 2 16 1 3 12 3 1

Appendix table 8.- Sales value, number of stores handling and number of brands of frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953--Continued

		Rank in	: Sales		
Commodity	:Total sales:	total sales	per	Stores handling	Brands available
	: Dollars	Number	Dollars	Number	Number
Rockfish	714.19 533.50 166.89 74.76 307.65	53 101 32 84 15 38 122 41 112 81 18 75 54 71 26 37 70 89 55 44	0.37 .45 .68 .38 .74 .54 .10 .50 .21 .40 .67 .75 .37 .24 .65 .61 .96 .98	17 4 21 4 26 15 1 5 16 2 10 26 5 16 19 25 17 8 4 6 8	8 1 8 1 7 1 1 3 1 5 9 2 4 8 9 8 3 2 2 3
Chicken, cut up	659.98 1,057.78 352.21 574.00 362.21 67.34 34.14	29 19 49 33 47 93 111	.45 .99 .51 1.03 .72 .20 .17	21 25 19 21 20 10 5	7 8 5 8 5 3 3 1
Cheeseburger Hamburger Beef liver Steak, cubed Steak, sandwich Steak, tenderloin Calf brains Calf liver Calf sweetbreads Ham steak Pork chops Pork cutlets Pork tenderloin Veal cutlets	6.30 325.29 3,345.19 58.12 6.75 16.66 64.37	108 77 130 52 8 97 129 120 95 99 66	.31 .49 .32 .72 1.15 .49 .19 1.51 .59 .32	7 10 1 7 27 3 1 4 2 1 3 1 4 8	1 6 1 2 9 1 1 2 2 1 2 1 3 3

Appendix table 8.- Sales value, number of stores handling and number of brands of frozen foods in retail stores. Washington, D. C., Aug. 3-Sept. 12, 1953--Continued

	•	Rank in		Stores	Brands
Commodity	:Total sales:		: per	1 37 d	available
	:	sales	:sq. inch	B	-
	: Dollars	Number	Dollars	Number	Number
Onions, french-fried	129.14	78	0.30	ז ל	7
Potatoes, french-fried • • •		10	.82	15	1
Potatoes, pancakes • • • •		115	.46	27	12
		103	.12	2	1
Potatoes, puffs		92		13	1
Potatoes, whipped			•30	9	2 5 1 2 2 3 5 5 1
Squash, cooked		69	.16	23	5
Sweet potatoes	: 42.81	107	.29	7	1
Cod	• .38	144	.00	5	2
Codfish cakes	203.03	63	.43	10	2
Crab cakes · · · · · ·	: 357.06	48	•52	20	3
Crab, deviled	: 177.97	68	• 38	13	5
Crab, meat	: 7.12	127	.05	3	5
Fillets	: 4.68	134	.09	2	ì
Fish cakes	3. 56	137	.06	2	1
Fish sticks	: 13.78	121	15	5	2
Flounder	26.23	114	.58	Ĺ	2
Haddock	302.77	57	.80	14	Ž ₄
Herring	: 4.13	136	.14	ì	ī
Oysters	: 106.28	86	.19	16	6
Perch	: 47.83	105	•27	6	
Rockfish fillets	: 72.05	90	.97	2	3
Scallops	: 297.00	58	.49	19	5
Seafood dinner	: 334.51	51	.48	16	3
Shrimp	2,595.40	íī	1.21	27	12
Smelts	: .78	143	•26	1	1
Chicken a la king		60	.45	19	4
Chicken croquettes			.00	2	2
Chicken, fried		67	.51	10	2
Chicken pie		4	2.64	26	8
Chicken turnover		132	.04		1
Turkey dinner		76	•57	4	1
Turkey pie				4 8	
Beef pie	: 702.36	74 27	.61 .61		ź
Steak dinner	: 117.31			2)1	215111211231
Beef patties and gravy		83	.41	1	1
		 ۵۲	.00	1	Ţ
Apple pie	: 114.10	85	.30	13	2
Apple turnover	: 16.78	119	.28	3 3	1
Blintz, blueberry · · ·	: 7.07	128	.11	3	2
Blintz, cheese · · · ·	: 122.57	80	.41	11	3
Blintz, strawberry	: 6.11	131	.19	1	t .

Appendix table 8.- Sales value, number of stores handling and number of brands of frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953--Continued

Commodity	Total	: Rank in total	-	Stores	Brands
Commoditely	sales	: sales	: per :sq. inch	handling	available
	:Dollars	Number	Dollars	Number	Number
	· DOLLAID	Manteet	DOTIALS	Manioci	Manipor
Blueberry muffins	: 4.98	133	0.10	ı	2
Prownies		110	.18	7	3
Cherry pie			.25	13	2
Cherry turnover			.08	3	ī
Strawberry shortcake			•28	16	
Cheese cake		104	.74	3	3 1
Cloverleaf rolls	: 38.02	109	.13	9	1
Corn fritter	: 17.82	118	•28	2	1
Spoonbread	: 66.00	94	.24	6	1
Waffles	: 410.83	43	•33	25	3
Shredded coconut	: 4.60	135	.06	3	1
Hors d'oeuvres	:	980 400	.00	1	1
Pizza pie		106	•22	6	2
Ravioli	•	124	.19	2	l
Meat sauce	? 7.75	126	•97	1	l
Chow mein, chicken		96	•30	ij	2
Chow mein, shrimp		102	•35	8	2
Chow mein, vegetable		113	.16	7	2
Egg rolls		82	•52	10	2
	2.08		.06	2	2
Egg drop soup		142	.08	1	1
Wonton soup	: 9.09	123	•09	3	2
Chopped horsemeat	:1,010.51	21	•49	27	5

Appendix table 9.- Average number of frozen foods on sale in retail stores by commodity groups, Washington, D. C., Aug. 3-Sept. 12, 1953

Group and store number	:Vege-	Fruit	Concen- trates	Seafood	Poultry	Meat F	repare foods	d: Pet : food	All
Small	: <u>No.</u>	No.	No.	No.	No.	No.	No.	No.	No.
1 2 3 4 5 6 7 8	: 17 : 15 : 18 : 18 : 18 : 19 : 18 : 21	3 3 6 5 5 6 1 7	4 6 7 8 6 8 7	3 4 9 7 4 8 5 7	43644556	1 9 2 3 2 1	10 11 23 9 6 20 13 18	1 1 1 1 1 1	43 144 79 54 47 69 51 70
Average	18	4	Ó	6	5	3	14	1	57
Medium 9 10 11 12 13 14 15	: 19 : 22 : 21 : 19 : 21 : 20 : 20 : 20	1 3 8 6 7 6 7 5	4 6 11 10 10 11 7	0 4 11 5 10 9 10 8	10655434	1 1 3 3 4 2 4	9 10 30 13 27 24 27 33	1 1 1 1 1 1 1	36 47 91 62 85 77 79 85
Average	: 20	5	9	7	3.	3	22	1	70
25	: 23 : 19 : 18 : 19 : 21 : 20 : 21 : 21 : 22 : 18 : 19	8 6 6 5 7 6 6 5 6 5 6	11 7 7 7 9 10 10 9 7	13 13 9 8 12 18 19 16 6 12 13	65557654355	23314551233	38 22 21 14 30 24 25 16 21 18 22	2 1 1 2 1 1 1	103 76 70 60 92 90 92 73 70 69 76
Average	20	6	8	13	5	3	23	1	79
Average, all stores	20	5	8	9	4	3	20	1	70

Appendix table 10. - Number of brands and value of sales per square inch of display space for selected frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

All	sales	Dollars	0.23	•28	34	.22	• 78	.18	. 22	.17	.43	.33	•34	.38	• 26	.77	.25	.35	69•	1.17		.80	.87	.82	1.25	.87	1.44	80	-94	0.79	
French-fried :	: Sales :	Dollars	0.35	.32	.68	.32	.36	.33	• 22	.39	.19	.26	-47	.24	99.	.97	.27	9.	. 48	1.68		.68	.87	.90	1.27	.78	1.65	.63	1.43	29.0	
: Frenci	:Brands	Number	2	2	-	٦	m	2	٦	7	Н	m	2	٦	2	m	m	2	7	٦	٦	٦	m	m	Μ	m	٦	Н	٦	2.0	
Strawberries	Sales	Dollars	60.0	•19	50	.57	•39	.07	.17	.33	0	.18	.22	.24	.39	67.	۲z.	₹.	8.	1.10	3.18		•74	55.	2.03	29.	1.06	• 76	1.09	0.68	
Strawb	Brands:	Number	2	-1	~	~	<u>س</u>	m	2	2	0	m	᠕	2	7	m	7	m	7	٦	7	٦	7	7	7	m	m	7	7	5.6	
steaks	Sales	Dollars	0.08	.57	•59	• 26	1.32	.25	.18	.13	1.10	. 88	.25	.17	.83	1.03	•16	•59	.79	1.64	3.25		1.12	1.08	3.27		1.65	1.17	1.12	1.01	
Beef	:Brands:	Number	H	H	7	٦	٦	m	7	7	2	٦	N	2	2	m	Μ	7	7	m	m	m	m	m	m	2	2	2	٣	2.7	
en beans	Sales	Dollars	0.15	.25	.17	.15	.85	.23	919		.13	.13	.25	.27	53.	-47	.08	22.	1.75	•59	1.02	917.	1.97		2.96		1.26	9.	.68	69.0	
Cut green	Brands	Number	2	Н	٦	2	۳۱	2	-	ᢧ	2	~	7	Н	Н	2	7	m	7	2	8	7	7	m	m	m	Н	-	2	2.3	
ревз	Sales	Dollars	0.28	.35	.35	02.	53	.17	8	%	구.	.47	.33	.71	69.	1.02	.35	.38	.67	1.37		.56	.75	.75	1.37	02.	2.18	ħ9°	1.82	0.73	
Green	:Brands:	Number	8	-	٦	7	7	2	٦	w	2	m	7	٦	٦	m	N	2	7	2	2	2	9	7	7	7	-	2	2	5.6	
e juice	: Sales	Dollars	0.42	.62	1.13	1.56	1.11		1.68	.35	1.79	0	1.42	1.18	1.07	2.20	79.	.80	1.56	4.31	4.70	3.19	4.03	1.91	3.11	2.54	2.80	1.78	•	1.87	
Orange	Brands:	Number		2	7	2	2	m	m	א	2	m	7	7	m	7	N	2	N	~	m	~	7	m	m	7	m	m	3	3.2	
Store	number		 H	2	ω	7	w.	9	7 :	∞	6	10	:	12 :		14 :	15 :	16:	17 :	18	19 :	8	27 :	22 :	23 :	: ਨੋ	25	5 6 8	27 :	Average	

Appendix table 11.- Frozen food display space and value of sales in retail stores by commodity groups, WasHington, D. C. Aug. 3 -Sept. 12, 1953

Group and		Total	Vegetables	bles	Concent	entrates	Prepared	foods	Seafood	poo	Fruit	٠. ٠٠	Poultry	r.y	Meat	ıt	- 1	food	Empty
racumi e iong	Space	2	: Space :	Sales	. Space :	Sales	: Space :	Sales	Space	Sales:	Space :	55	Space	Sales	Space :	Sales	Space	Sales	Space
	Sq. 1nº	Dol.	Sq. in.	Dol.	Sq. in.	Dol.	Sq. in.	Dol.	Sq. in.	Dol.	Sq. In	Dol	Sq. in.	Dol	Sq. in.	Doke	5q. 1n.	DOT.	Sq. In
Smell 1	1,233	278.04		116.15	247	56.93	152	43.61	ή9	16.83	99	7.96	136	30.16	98	3.15	35	3.25	35
2	: 1,133	320.15		118.95	270	102,81	156	10.75	25,2	96.16	777	0°03	2 - C	22.61	382	03°0T	98	(att)	#1 911
w -	: 2,463	034.75	265	09.40	373	150.14	324	1,8,41	211	18.88	127	21,010	150	5.91	, g	30.92	ረ አ	23.04	77
J V	1.31.3	1.019.72		328.23	327	249.35	143	89.29	96	21.50	136	40.72	. 19	193.89	8	81.09	7	45.25	12
0	1,714	312.65	635	97.81	337	155.76	107	21,81	114	9.43	105	13.81	孞	40.74	148	7.85	77	100	1
7	: 2,08E	453.28		67.95	1,99	203.77	383	81.85	82	38.62	8	10.48	218	28.56	87	16.05	72	0009	536
80	: 4,316	719.58		275.93	712	273.48	565	85.05	152	43.99	235	22.99	174	2,63	901	11.60	7/7	1,445	553
	1 50 0	10 / 1	7,70	10.01	1	77 77	9.10	22 1.0	811	OH RK	116	91 23	105	1.6 1.6	à	40.01	2,1	91.21	8,(1
Tyerage	2,014) 0 ° 0 † C	240	149.91	505	105.05	240	04.0()	770	00.02	777	66012	767	40.40	2	m. (†)	ì	(70.77	777
Medium	2,355	91,00.1	094.1	1115-110	1	163.57	265	73.80	ı	£	1	1	8	1	10	10,98	98	10.01	19
	• •	677.71		398.35		192,36	373	13.63	Ħ	14.01	8	17.38	8	8	10	8.82	æ	3,19	165
11	2,580	889.09		308.14		296.04	491	162,25	228	30.61	210	51.72	120	20° 74	29	12,33	∄	96.9	2
12	**	1,472,99		534.28		611,27	549	168,19	163	116.68	307	53.18	163	30°M	204	42.31	143	29.9	57
13	**	1,064.22		368.65		354.73	1,190	126.68	146	170°119	245	44.24	259	23.32	174	82°29	1	1	æ :
검	••	2,777.65		919.13		995.32	682	394.77	230	132,31	212	93.50	105	107,52	7.50	68.18	126	66,92	8 3
21. 26.	3,505	372,50	1,323	345°10 267°87	574 921	274.93	1,097	339.31	242	20°01	155	15.36	252	81.70	163	10°32 84°68	88	3.96	155
	"				- 1														
Average	3,258	1,268,54	1,272	06°५५ग	598	η _{60°} 70	299	176,16	224	53.78	201	l.9 ,82	υμο	50.61	103	h1.02	58	16.16	91
		100		000		0, 000	,	711	000	0000	477	20 0/0	010	000	170	70 070	1	6	0.5
Large 17	: 10, 443	7,224,30	3,568	20,370,000	19801 E	600 SOZ 6	-i'r	282 28	2/0	300°33	655	202.05	242	35.0 35	2804	ζρο. (γ.		(2°2)	250 380
01		8.177.53	1026	2,265,12	, 026 L	1,135,08	4	710.90	107	533.28	263	31,5,08	302	500,00	362	229.56		23.25	202
\$ 50 1		3.439.34	1,892	968.37	589 1	191.90		361,09	11/2	207.94	129	116,10	273	106,26	150	152.82		34.86	117
21		6,922.61	3,036	2,183,73	1,112 2	,673,00	٦	219.92	375	214.34	506	249.39	560	149.82	246	173.41		59.00	925
22		8,205,14	3,728	2,983.97	1,870 2	,349.75	٦	100.07	1,397	751.88	869	482.69	300	200,85	281	248.99		86.94	77
23	••	13,621,55	4,018	956.99	1,898 4	1,002.28	٦	865.87	2,030 1,	,340.52	525	605.33	252	235.59	248	512.88		.02.09	336
12 C	••	6,555,65	3,375	2,509,68	1,063 1	1,833,32	•	976.03	2,5	451.68	529	250.83	220	153.22	122	321,66		59,23	767
52	••	11, (41, 12)	2,030	,091.99	2,405	12 (17.88	7	509-19	352	195.30	949	577630	92	190.40	503	400.29		50°50°5	4 C
26	: 7,503	5,970.43	2,710	2,223.45	1,010	1,018,51	1,063	752.17	1,273	947.24	379	177.43	245	196.03	217	208.10	25	12,50	527
7	• ••	00.000.01	7,004	9437.00	7 77 67	CT.COO.66		230013	0 60 6 7	707 • 12	600	C70Th0	200	070101	107	44.4°05		06.2)	8
Average	8,276	8,276,84	2,991 2	2,630,65	1,467 2	2,737.49	1,339 1,	339 1,295,80	1,010	636.39	51.9	366.63	271	221.25	267	318.94	1	29°69	330
Average, all	1, 031,	3,000,0	PO HIG L ONL	20. H.10	K OXX	1 200 RK	21.8	4.1 504	C21.	09 600	300	00 241	103	75 .101	168	156 63	7,	37. KB	203
stores		710/0/6/	1 (0) 61	/300736		no on of the	240	005 340	75.4	275,000	202	TO.C/T	77	45 the 7 (904	000/1	2		101
		TO THE RESIDENCE AND ADDRESS OF THE PARTY OF																	

	: Empty	Pet. 1.5	4.11 4.11 4.12.8 6.4	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23. 65. 11. 65. 17. 65. 17. 65. 17. 65. 17. 65. 17. 65. 17. 65. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	
es by	food		2 - 4 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	1	ц цц ц о'глоечвеле.	
l stores	Pet	Pct. 2.6	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.11 8 11 50 11 10 10 10 10 10 10 10 10 10 10 10 10	11 11111111 000000000000000000000000000	1.3
retail	p t	Pet.	22.200	11.10.00.00.00.00.00.00.00.00.00.00.00.0		3.8
value in	Meat	Pot. 3.1	10 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		WWW WWW WW T	3.2
19	Poultry	Pet.	21.82 B	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2.7
ਰ •	Pou	Pet.	100 100 100 100 100 100 100 100 100 100	0000000 0000000	4470 mmaaaamu maramomaaaa	3.3
3-Se		Pct. 2.5	10 0 2 2 0 m	1 0 N W T W T W W N N N N N N N N N N N N N	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4.4
on food si	Fruit	3 8	7 2 2 6 10 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000000000000000000000000000000000000	6.3
rozen D. C.	bood	Pet. 6.0	2 4 6 8 8 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	421 66.00 67.00 66	7.7
of	Seafood	Pot.	2011-04-07-07-07-07-07-07-07-07-07-07-07-07-07-	0.0000000000000000000000000000000000000	8.3 17.2 17.2 10.4 18.6 10.4 17.0 16.9	12.2
distribution oups, Washing	red	12.3 15.7 5.2 6.0 13.8 12.8 5.7 1.9	11.8 13.1 13.1 13.1	200 100 100 100 100 100 100 100 100 100	200 1150 1130 1230 1230 1230 1230 1230 1230 123	15.7
e distri	Prepared foods	Pet. 12.3 13.8	23.7.	22.50	181 181 181 181 181 181 181 181 181 181	16.2
00	es es	20.5 20.5 17.0	W 23.7.0.	34 8 4 4 4 8 8 8 8 4 8 8 8 8 8 8 8 8 8 8	37.00 F 5.00 F 5	33.1
1 0	Concen	35.9 41.8 20.0 20.5 40.3 37.2 23.8 32.1	19.59.7 19.59.7 19.59.7 19.59.7	200 200 200 200 200 200 200 200 200 200	18.2 17.3 18.6 19.6 117.3 117.3 117.3 117.3	27.7
le 12.	bles	Pet. 41.8 37.2	23.03.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.	488444888978 387-99648878	32.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	31.8
ix table	: Vegetables	35.9 10.3	38.0 32.0 32.0 32.0 33.0 33.0 34.0 34.0 34.0 34.0 34.0 34	52.0 257.0 39.0 39.0 39.0	38633863388338833888338883888388883888	1 21
Appendix		1	0	Average:	Large 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Average:

Appendix table 13.- Frozen food sales value per square inch of display space in retail stores by commodity groups, Washington, D. C., Aug. 3-Sept. 12, 1953

Group and store number	:Vege- :tables	Fruit	Concen- trates	Seafood F	oultry	Meat	Prepare foods	Pet foo	d'All	
	: Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	
Small 1 2 3 4 5 6 7	: 0.26 : .26 : .18 : .21 : .68 : .15 : .15	0.12 .17 .29 .19 .30 .13 .17	0.23 .38 .42 .40 .76 .46 .41	0.26 .09 .48 .09 .23 .08 .45	0.22 • hh • 53 • 04 3.18 • 09 • 13 • 03	0.08 .57 .61 .53 2.08 .16 .18	0.29 .26 .27 .15 .62 .05 .21	0.10 .41 .18 .41 1.03 .10 .08	0.23 .28 .34 .22 .78 .18 .22 .17	
Average	•23	.19	•43	.24	• 37	.51	.21	•27	•27	
10 11 12 13 14	0.31 34 31 30 35 65 26	0 •25 •17 •18 •44 •22 •29	0 .71 .75 .84 .47 1.45 .48	0 •34 •13 •29 •14 •58 •15 •24	0 0 .17 .19 .09 1.02 .44 .79	1.10 .88 .18 .21 .47 .92 .15	0.28 .16 .33 .31 .11 .58 .15	0.12 .14 .17 .16 0 .53 .75	0.43 .33 .34 .38 .26 .77 .25	
Average	•35	•25	•77	.24	•36	.40	•27	.28	•39	
18 19 20 21 22 23 24	: 1.18	0.47 .75 1.32 .73 .49 .56 1.15 .47 .89	1.20 2.43 3.19 2.53 2.40 1.26 2.11 1.72 1.51 1.40 2.03	0.34 .85 1.25 .47 .57 .54 .66 .58 .56	0.80 .94 1.64 .39 .58 .67 .93 .70 1.02 .81	0.74 1.47 1.42 1.02 .70 .89 2.07 2.64 1.35 .96	0.63 .93 .71 .62 .87 .78 1.26 1.14 2.38 .71 .58	0.84 .67 1.31 .34 .47 .69 .72 .65 .69 .62	0.69 1.17 1.47 .80 .87 .82 1.25 .87 1.44 .80	
Average	.88	.71	1.87	•63	.82	1.19	•97	•63	1.00	
Average, all stores	.70	•57	1.46	.56	.64	•93	.71	.49	•79	

Appendix table 14. Display space and value of 10 leading frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

Group and		Orange	juice	Lima beans	eans	Lemon	ponade	Green	peas	Proceeds	170	Treen	Deans	steak	aks	Grape	Juice :	Spinach		potatoes	800
store number	er	Space :	Sales: Space	Space :	Sales	Space	; Sales:	Space	; Sales	Space	: Sales	Space	: Sales:	Space	: Sales	: Space	Sales:	Space	Sales:	Space	: Sale
		Sq. in.	Dol.	Se th	701	Sq. 1n	Dol.	Sq. 1n	Dol.	Sq. in	Dol.	Sq. 1n.	Dol	Sq. 1n.	Bol.	Sq. in.	Dol	Sq. in.	Dol.	Sq. 1n	Dol
Small	, r	72	30.36	978	24.42	97	13.86	29	8.11	29	1 .22	17	7.02	38	3.15	18	6.50	47	11.91	32	I,
	4 6	68	26.69	63	21.50	32	31.05	31	10.75	25	6.08	: R	8.40	185	109.29	ረድ	202	13	700.7	23	15,
		5	78.06	25	12.40	2	62.16	ĸ	21.84	35	24.15	65	9.87	28	7.26	2	1.50	25	4.48	53	0
			150.66	57	66.56	굯!	25°88	101	53.58	56	28.18	91	39.21	22	28.98	요?	18.00	4:	35.76	79	8,
		: 107	113,86	, Q	10,00	57	20.68	5	12.60	٠ ٢	15.27	7.5	10°00	25	0.59	52,	72.00	∄'	11.34	77 7	ړ ر
	~ ∞	396	137.55	25 196	5°55 149°33	88	20.62	303 503	35°84	86	34.93	52 227	20.63	76	10.13) 1	30.00	264 264	21.02	843	25.22
		128	99.77	92	30.14	99	29.27	2%	21.25	38	15.76	75	15,30	09	23.96	50	23,71	99	13.25	Pol	14.02
WAC TOPE				STREET STREET			121/2	WESTER TO		CERTIFICATION OF THE PERSON OF		,	accionate a			-				İ	i
Medium	96	188	336.83	271	129 89	258	117.38	179	73.47	82 LLL	53.55	244	31.18	010	10,98	P -	\$0°.00	8 F	13.29	72	13.98
	3 7	· :	204.57		74.47	22	16.37	17	36.69	171	32.69	11	27.83	1,7	11.80	35	23.38	77	23.31	35.	17
	12	316	374.11		97.84	7.	96.36	911	82.08	102	00.09	284	14.92	777	24.23	47	39.00	264	50.60	96	23
	74	322	708.64		137.66	100	45.52 105.49	13.6	176.34	\ \ \ \ \	157.56	21h	100.23	67 170	22°24 20°14 20°14	38	11.044	173	35.20 94.01	7 7 7	2011
	127	253	162.77		54.30	93	53.34	102	36.54	120	34.53	192	15,25	86	13.0h	83	31.10	126	26.56	72	25
	9	106 :	0.002		50.39	707	01/0611	8	32.43	фо	8.1	151	2(0)3	TOT	00.10	8	47.67	777	70°74	2	74
Average		242	306.00	180	88.65	121	73.64	118	67.21	66	55.28	181	43.75	79	29.17	28	31.84	130	00°T	74	34.84
Large	17	725 1,	1,133,24	396	334.41	500	497.69	1,62	309.94	376	274.66	1917	804.88	317	250.23	1.08	241.20	323	179.37	396	190.82
	2 22		2,382.08		514.79	312	732.68	303	419.54	316	319.79		383.26		159.14		156.87		14.87	11,3	174
	20		1,009.57		210.38	145	293.39	330	185.17	202	156.65		102.54		152.82		93.45		90°20	132	8
	21 :	1777	1,748.52		328.71	258	473.53	103	304.07	7	287.79		584.87		156.30		258.75		134,831	231	200
	222	1,00	1,404.03		148.31	765 1965	310,62	777	334.62	167	110°13	•	830.81		164.33		183.12		163.70	323	291
	25		1,191,67		115,31	137	291.83	383	267.54 FP. 57.59	198	23,50	•	662.73		357.04		18.89	- '	20% [1]	288	250
	25	771 2	2,160,00		510.17	797	588.76	217	1,72.08	226	394.69		398.65		362.09		212.68		319.62	122	201
	56 :	-	789.01	165	489.35	187	394.37	363	231,06	173	150°64		158.57		133.90		126.46		752.96	133	83
	27 :	1,107 2,	816.36	407	770.73	322	600.54	309	563.54	555	409 • 74		388.92		314.15		183.80		:30.13	138	197
Average	•• ••	617 1,	617 1,742.43	125	473.00	313	515.21	347	355.75	335	311.47	017	598.48	177	265.85	126	191.16	270	181.01	21.7	210,38
Lo on one on a	_																				
Average, all stores	-!	361	830.11	249	227.90	183	240°39	193	21,171	177	70.7.11	2)13	CE-190	001	121,05	814	96.71	3 891	89.82	122	100,19

Appendix table 15. Percentage distribution of display space and sales value for 10 leading frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

	Dage	:Sales	Space	pace : Sales :		ace : Sales :		Sales	-	Sales		1	: steaks :Space :S	ales			Space : Sa	Les	: potatoes :Space :Sal		8.8	. S
	Pct.	Pet.	7	Pct.	Pct.	1	Pct.	Pet.	\$	Pct. Pct.	Pet.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct	• 1	Pet	
Small	15.5		ر برد د	8.8	7,0	000	2.2	2°,0	200	400	3.6	20.2	2.9	1.1	1.6	2.3	3.6	10.0	200		0.7	
v (*			, 0	300	0 00	3.7	1.2	1.3	0.1	20	20.	0,1	7,5	13.1	2.2	, TV	, PV	V.	0,			1,9
74			3.5	3.0	2.7	15.3	1.7	5.2	1.7	5.9	3.5	2.h	1,5	1.8	2.7	70	2.8	1.1	1.6			2°3
w	6•6 :		401	6.3	3.9	5.5	7°4	7. L	1.9	2.7	۳°.	307	1.6	2°8	2°6	1.7	0,0	3.4	÷.	~		200
9	0.9:		4.07	6.1	3.2	6°7	4.1	0.4	2°0	4.9	2,5	ر ا ا	1.5	ω τ -4 γ	구 c	۵° ۷	% '	ئ د د				, r
~ 80	9.0	30.4	L 1	1.5 6.9	0 ° 0	2.9	1.7 2.1	ν. ν. υ.	7°5 7°0 8°0	1°7	7, 7, 7, 5,	2°8	7 69	2.01 1.01	200	15.0	1.6 6.1	2.9	1.5			, v,
																				- 1		
Average	709 :	18.2	3.8	7,00	3,3	5.4	2.8	3.9	1.9	2.9	3.7	2.8	3.0	п°1	2.5	4.3	3.3	2°F	2.0	Ī	2.6	2.6 32.6
Medium 9	8.0	33.h	11.5	12.9	11.0	11.7	7.6	7.3	3.5	5.3	10.4	3.1	77	1.1	8	ı	3.8	4.3	3,1		1.04	
10	 	7-77	ຜູ້	14.8	1°7	6.1	4,1	ν, - ∞ '	ν. ν,	9.0	ر بره	0,0	'n.	1,93	200	0,0	w c	200	4.1			ب سار
11		23.0	7,00	200	۰ ۱ ۱	, v	200	1.4	200	٥٠,	7.5	7.0	1.0	L. L.	L. C.	0 %	6.7	3.1.	2.1			1.6
13 6		2),0	o c	່ວ	3,0		201	, v.	9 6	3 0	207	1107	٠,۲	11-7	1.7	1,0	200	3 6	. 7		1.9	
រិគី	8.7	25.5	4.6	, 2°	, m	ب ا ا	4.7	, e	3,5	, r.	, ν, - φ	3.6	1.63	1.8	1.0	1.7	4.7	3.4	3.1		0°17	4.0 41.7
15	: 7.1	18.3	h.0	6.1	2.6	0.9	5.9	407	3.4	3.9	5.4	Je7	2.3	1.5	5.6	3.5	3.5	3.0	2.0		2.2	
16	1 9.2	21.0	3.3	3.7	5.1	& .3	2.2	2°¶	1.6	3.0	۳°	2°0	5.6	4.5	2°0	3.6	5.9	1.5	2.3		3.9	
Average	7.4	24.0	5.5	7.0	3.7	5.8	3.6	5.3	3.0	4.3	5.5	3.14	2.0	2.3	1.6	2.2	14.0	3.2	2.3		2.7	2.7 38.6
																				П		
Large 17	6.9	15.7	3.7	4°6	4.7	6.9	1°7	403	ω, γ,	3.8	L. 1	11.11	0,0	ر ار	1.8		3.0	о, Л,	7°°		5.6	2.6 39.7
0 70	000	200	40 V	ر د د د	9 V	0 0	A L	7 L	D L	1 0	(a	۲.۵ د د ک	٠ •	, c	↑ 1 1		000	7 ° C	200		0 0	
2 6	7.3	20.1	2 V		2 6	, «	7.6	7	7.7	, ,	, ע ס ר	4°-	, Y,	\	7	2.7	ر و ح	- 9-0	2 -		2.6	
23		25,3	3.5	1,07	3 6	, a	, V	100	, V.	200	1 6	0	1.8	2.3	10	3.7	1.3	1.9	0,0		2.9	
22		17.1	1.07	ห	3.3	3.8	L . 1	4.1	4.8	200	2.0	10.1	1.5	2.0	2.0	2.2	2,2	2.0	3.1		3.6	
53	6.9	18,3	2.0	5.3	4.3	9.9	3.4	3.9	D•4	3.8	5,	13.0	1,3	3.6	1.7	2°h	2.5	2.1	3.0		3.2	
72.0	. 6.1	18.2		6.3	ر ا ا	-3,1 1√0,0	ν, 0 ι	4.1	5.6	ر برء	9.9	13.2	1.6	4.9	ဆွ	۳, ش	4.1	2 5	ພູ, ໝຸ		3.6	
2,5		10°07	10.7	£.0	v .	, v		200	5° C	1°C	יי אַנ	7,0	7.0	1.0	ۍ د د	ρ, Τ.	7.5	. 07	اً ر ره) - T	
200	, a	26.2	7.00	0 6	, c	o n	2 c	ار م	יי יי	ν, c	IJη V. L	700	1 ℃	, °	T. a	7°7	7°T	0 0	0°C		7°7	
13	200	6000	0.0	301	607	0.0	0.5	2.0	0.0	٧٠٠	7.6) ° (۲۰۶	0.0	•	707	۲۰۶	707	707		7.07	
Average	7.5	21.1	5.1	5.7	3.8	6.2	4.2	№3	h.0	3.8	5.0	7.2	2.1	3.2	1.5	2•3	3.3	2.2	2.6		2.5	2.5 39.1
Average, all	7.3	0 [0	2	α u	2.7	۲ ۶	2.0	1	3 6	a c	1.0	4 7	000	000	3 6	-	- 6		8	1	96	2 8 38.2
stores	-		3.	200	- 00	•	700	77 0 17	o °C	000	1107		200	7	OWT	707	700	200	200	4	2	

Appendix table 16.- Sales value per square inch of display space for 10 leading frozen foods in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

Group and	l er	Orange juice	Lima beans	Lemon- ade	:Peas	Broc- coli	Green beans	Beef sandwich steaks	Grape juice	Spin-	French- fried potatoes
		: Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.		Dol.
Small	1 2 3 4 5 6 7 9	0.42 .62 .1.13 .1.56 .1.11 .1.06 .1.68	0.53 .51 .39 .21 1.17 .23 .22	0.14 .15 .44 1.24 1.02 .37 .36 .23	0.28 .35 .35 .70 .53 .17 .30	0.42 .01 .25 .75 1.08 .44 .20	0.15 .25 .17 .15 .85 .23 .19	0.08 .57 .59 .26 1.32 .25 .18 .13	0.36 .29 .08 .03 .45 .48 .45	-	0.35 .32 .68 .32 .36 .33 .22
Average		•78	-40	.42	•38	.42	.20	.40	•47	.20	•35
		-							• 41	- 20	•))
Medium	10 11 12 13		0.48 .58 .53 .37 .43 .80 .38	0.45 .46 .31 1.89 .46 .86 .57	0.41 .47 .33 .71 .69 1.02 .35 .38	0.65 .18 .29 .59 .56 1.30 .29	0.13 .13 .25 .27 .45 .47 .08	1.10 .88 .25 .17 .83 1.03 .16	0 .51 .67 .83 .16 1.27 .34	0.49 .48 .30 .19 .28 .54 .21	0.19 .26 .47 .24 .66 .97 .27
Average		1.27	.49	.61	•57	.56	.24	.46	•55	• 32	.47
Large	18 19 20 21 22 23 24 25 26	: 4.03 : 1.91 : 3.11 : 2.54 : 2.80 : 1.78 : 2.54	0.84 1.26 1.44 .75 1.27 .92 1.25 .60 1.33 1.05 1.89	1.00 2.06 2.35 2.02 1.84 .91 1.81 2.13 1.27 2.11 1.87	0.67 1.37 1.38 .56 .75 .75 1.37 .70 2.18 .64 1.82	1.75 .87 .74	1.75 .59 1.02 .46 1.97 1.61 2.96 1.72 1.26 .60	0.79 1.64 3.25 1.02 1.12 1.08 3.27 2.64 1.65 1.17	1.28 2.04 2.31 1.99 3.70 .85 1.64 1.86 .86 1.32 1.89	0.56 .55 .89 .34 .39 .62 .99 .46 1.23	0.48 1.68 1.22 .68 .87 .90 1.27 .78 1.65 .63 1.43
Average		2.83	1.11	1.64	1.02	•93	1.46	1.50	1.51	.67	•97
Average, a	11	2.30	.92	1.31	.89	.84	1.08	1.14	1.14	•53	.82

Appendix table 17.- Holding capacity and type of frozen food storage in retail stores, Washington, D. C., Aug. 3-Sept. 12, 1953

Group and store nu	mber	Holding capacity	Type of storage
	3	Cubic feet	
Small	1:	23	
	2 :	18	-
		24	400 APR
	3: 4: 5:	21	-
	5 :	27	Chest
		24	-
	7:	15	40.40
	8:	48	Chest
Average	:	25	
Medium	9:	29	Chest
	10:	16	60 fts
	11:	39	60 fts
	12:	51	Chest
	13:	68	Chest
	14:	28	
	15:	59	600 thp
	16:	54	•
Average	:	43	
Large	17:	121	Chest
	18 :	95	Chest
	19 :	434	Walkin
	20 :	55	Chest
	21 :	178	Walkin
	22 :	386	Walkin
	23 :	108	Chest
	24:	87	Chest
	25 :	826	Walkin
	26:	526	Walkin
	27 :	494	Walkin
Average	:-	301	e dyn fernik er en synder engreg gregoring er gere en henne gener til en er ette er hette e di
Average, all stores	:	143	



